

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMLC066438

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

BELL LAKE UNIT NORTH 221H

2. Name of Operator

KAISER FRANCIS OIL COMPANY

Contact: ERIC HANSEN

E-Mail: EricH@KFOC.net

9. API Well No.

30-025-47562

3a. Address

6733 SOUTH YALE AVE
TULSA, OK 74136

3b. Phone No. (include area code)

Ph: 918-491-4339

10. Field and Pool or Exploratory Area

BONE SPRINGS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 1 T23S R33E Mer NMP FSL FWL
32.332129 N Lat, 103.524645 W Lon

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Kaiser-Francis Oil Company request to change the SHL location of the four wells located on pad 3 in North Bell Lake.

This includes the following wells:

Bell Lake Unit North 422H
APD ID# 10400049081

As Submitted SHL 1992' FSL 2206'FEL 1-23S-33E Lea County New Mexico.
Proposed SHL 2082' FSL 2171'FEL 1-23S-33E Lea County New Mexico.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #531843 verified by the BLM Well Information System
For KAISER FRANCIS OIL COMPANY, sent to the Hobbs

Name (Printed/Typed) ERIC HANSEN

Title DRILLING ENGINEER

Signature (Electronic Submission)

Date 09/28/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #531843 that would not fit on the form

32. Additional remarks, continued

Bell Lake Unit North 421H
APD ID#10400049061

As Submitted SHL 1962' FSL 2206' FEL 1-23S-33E Lea County New Mexico.
Proposed SHL 2082' FSL 2191' FEL 1-23S-33E Lea County New Mexico.

Bell Lake Unit North 222H
APD ID#10400048402

As Submitted SHL 2112' FSL 2206' FEL 1-23S-33E Lea County New Mexico.
Proposed SHL 2082' FSL 2211' FEL 1-23S-33E Lea County New Mexico.

Bell Lake Unit North 221H
APD ID#10400048014

Approved SHL 2082' FSL 2206' FEL 1-23S-33E Lea County New Mexico.
Proposed SHL 2082' FSL 2231' FEL 1-23S-33E Lea County New Mexico.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47562	² Pool Code 98259	³ Pool Name Ojo Chiso; Bone Spring, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	⁶ Well Number 221H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁹ Elevation 3524.5

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	1	23 S	33 E		2082	SOUTH	2231	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	22 S	33 E		264	NORTH	2135	WEST	LEA
¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14527A						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD27) BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST (NAD83) COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD 88.	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Erica Miles 10/18/2021 Signature Date Erica Miles Printed Name EricaM@kfoc.net E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 20, 2021 Date of Survey PLIMON F. JARAMILLO Signature and Seal of Professional Surveyor Certificate Number: FILE NO. 12797, PLS 12797 SURVEY NO. 5766B
--	--

Intent ☐ As Drilled ☒API #
30-025-47562

Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT NORTH	Well Number 221H
---	---	----------------------------

Kick Off Point (KOP)

UL K	Section 1	Township 23S	Range 33E	Lot	Feet 2133	From N/S SOUTH	Feet 2232	From E/W WEST	County LEA
Latitude 32.3321524					Longitude 103.5269264			NAD 27	

First Take Point (FTP)

UL F	Section 1	Township 23S	Range 33E	Lot	Feet 2594	From N/S NORTH	Feet 2196	From E/W WEST	County LEA
Latitude 32.3336697					Longitude 103.5270438			NAD 27	

Last Take Point (LTP)

UL C	Section 36	Township 22S	Range 33E	Lot	Feet 438	From N/S NORTH	Feet 2144	From E/W WEST	County LEA
Latitude 32.3541085					Longitude 103.5272163			NAD 27	

Is this well the defining well for the Horizontal Spacing Unit?

☒

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number
----------------	----------------	-------------

KZ 06/29/2018

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47562	² Pool Code 98259	³ Pool Name Ojo Chiso; Bone Spring, Southwest
⁴ Property Code 316707	⁵ Property Name BELL LAKE UNIT NORTH	⁶ Well Number 221H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁹ Elevation 3524.5

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	1	23 S	33 E		2082	SOUTH	2231	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	22 S	33 E		264	NORTH	2135	WEST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14527A
--------------------------------------	-------------------------------	----------------------------------	-------------------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE--VERTICAL DATUM--NAVD83.	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Erica Miles 10/18/2021 Signature Date Erica Miles Printed Name EricaM@kfoc.net E-mail Address
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 20, 2021 Date of Survey Signature and Seal of Professional Surveyor Certificate Number: FILED MONTEZUMA COUNTY, N.M. PLS 12797 SURVEY NO. 5766B

Intent ☐ As Drilled ☒

API # 30-025-47562		
Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT NORTH	Well Number 221H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
K	1	23S	33E		2133	SOUTH	2232	WEST	LEA
Latitude 32.3322761					Longitude 103.5274076			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	1	23S	33E		2594	NORTH	2196	WEST	LEA
Latitude 32.3337935					Longitude 103.5275251			NAD 83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	36	22S	33E		438	NORTH	2144	WEST	LEA
Latitude 32.3542322					Longitude 103.5276982			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

☒

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



KAISER FRANCIS OIL CO.

LEA COUNTY, N.M. 27

SEC 1-T23S-R33E

BELL LAKE UNIT N. 221H

HORIZONTAL

Survey: Survey #1

Standard Survey Report

09 October, 2020

Kaiser-Francis Oil Company



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company:	KAISER FRANCIS OIL CO.	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 221H
Project:	LEA COUNTY, N.M. 27	TVD Reference:	GE+23' @ 3547.50usft (CAC 166)
Site:	SEC 1-T23S-R33E	MD Reference:	GE+23' @ 3547.50usft (CAC 166)
Well:	BELL LAKE UNIT N. 221H	North Reference:	Grid
Wellbore:	HORIZONTAL	Survey Calculation Method:	Minimum Curvature
Design:	HORIZONTAL	Database:	EDM 5000.15 Single User Db

Project	LEA COUNTY, N.M. 27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	SEC 1-T23S-R33E		
Site Position:		Northing:	485,999.00 usft
From:	Map	Easting:	749,493.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.33354
		Longitude:	-103.52558
		Grid Convergence:	0.43 °

Well	BELL LAKE UNIT N. 221H		
Well Position	+N/-S	0.00 usft	Northing: 485,443.48 usft
	+E/-W	0.00 usft	Easting: 749,908.65 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,524.50 usft
		Latitude:	32.33201
		Longitude:	-103.52425
		Ground Level:	3,524.50 usft

Wellbore	HORIZONTAL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	09/26/20	6.62	60.03	47,636.82287569

Design	HORIZONTAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		0.00

Survey Program	Date	10/09/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
236.00	18,492.00	Survey #1 (HORIZONTAL)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
236.00	1.71	77.11	235.96	0.79	3.43	0.79	0.72	0.72	0.00	
331.00	1.58	78.13	330.93	1.37	6.10	1.37	0.14	-0.14	1.07	
422.00	0.84	80.97	421.90	1.73	7.98	1.73	0.82	-0.81	3.12	
513.00	0.75	265.69	512.90	1.79	8.05	1.79	1.75	-0.10	-192.62	
605.00	1.41	271.67	604.89	1.78	6.32	1.78	0.73	0.72	6.50	
697.00	1.14	268.15	696.86	1.79	4.27	1.79	0.31	-0.29	-3.83	
789.00	1.05	283.97	788.85	1.96	2.54	1.96	0.34	-0.10	17.20	
881.00	1.01	283.10	880.83	2.35	0.93	2.35	0.05	-0.04	-0.95	
971.00	0.84	307.02	970.82	2.92	-0.37	2.92	0.46	-0.19	26.58	



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company:	KAISER FRANCIS OIL CO.	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 221H
Project:	LEA COUNTY, N.M. 27	TVD Reference:	GE+23' @ 3547.50usft (CAC 166)
Site:	SEC 1-T23S-R33E	MD Reference:	GE+23' @ 3547.50usft (CAC 166)
Well:	BELL LAKE UNIT N. 221H	North Reference:	Grid
Wellbore:	HORIZONTAL	Survey Calculation Method:	Minimum Curvature
Design:	HORIZONTAL	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,063.00	0.84	312.48	1,062.81	3.78	-1.41	3.78	0.09	0.00	5.93
1,154.00	0.75	314.32	1,153.80	4.65	-2.32	4.65	0.10	-0.10	2.02
1,244.00	1.01	311.07	1,243.79	5.58	-3.34	5.58	0.29	0.29	-3.61
1,335.00	1.27	291.74	1,334.77	6.48	-4.88	6.48	0.51	0.29	-21.24
1,427.00	1.58	289.45	1,426.74	7.28	-7.03	7.28	0.34	0.34	-2.49
1,458.00	1.45	294.55	1,457.73	7.59	-7.79	7.59	0.60	-0.42	16.45
1,517.00	1.27	294.11	1,516.72	8.17	-9.06	8.17	0.31	-0.31	-0.75
1,612.00	1.27	289.01	1,611.69	8.94	-11.02	8.94	0.12	0.00	-5.37
1,706.00	2.15	278.64	1,705.65	9.54	-13.75	9.54	0.99	0.94	-11.03
1,801.00	3.30	271.87	1,800.54	9.90	-18.24	9.90	1.25	1.21	-7.13
1,894.00	4.79	276.36	1,893.31	10.42	-24.78	10.42	1.64	1.60	4.83
1,989.00	5.85	277.15	1,987.90	11.46	-33.52	11.46	1.12	1.12	0.83
2,083.00	6.90	278.64	2,081.31	12.91	-43.86	12.91	1.13	1.12	1.59
2,178.00	7.16	284.27	2,175.60	15.22	-55.24	15.22	0.77	0.27	5.93
2,272.00	8.31	289.28	2,268.75	18.91	-67.33	18.91	1.42	1.22	5.33
2,367.00	9.76	289.19	2,362.56	23.82	-81.41	23.82	1.53	1.53	-0.09
2,461.00	10.68	284.18	2,455.07	28.58	-97.38	28.58	1.36	0.98	-5.33
2,555.00	11.96	277.32	2,547.25	31.95	-115.49	31.95	1.97	1.36	-7.30
2,650.00	12.40	270.82	2,640.11	33.35	-135.45	33.35	1.52	0.46	-6.84
2,745.00	12.00	270.29	2,732.97	33.55	-155.53	33.55	0.44	-0.42	-0.56
2,840.00	11.38	272.14	2,826.00	33.95	-174.77	33.95	0.76	-0.65	1.95
2,935.00	10.37	272.75	2,919.29	34.71	-192.68	34.71	1.07	-1.06	0.64
3,029.00	9.63	267.39	3,011.86	34.75	-208.98	34.75	1.26	-0.79	-5.70
3,123.00	9.93	268.89	3,104.50	34.24	-224.94	34.24	0.42	0.32	1.60
3,217.00	9.83	270.29	3,197.10	34.12	-241.07	34.12	0.28	-0.11	1.49
3,312.00	11.03	269.94	3,290.53	34.15	-258.27	34.15	1.26	1.26	-0.37
3,407.00	11.30	267.92	3,383.73	33.81	-276.66	33.81	0.50	0.28	-2.13
3,501.00	12.48	267.74	3,475.72	33.07	-296.01	33.07	1.26	1.26	-0.19
3,595.00	11.87	264.93	3,567.60	31.82	-315.79	31.82	0.90	-0.65	-2.99
3,690.00	11.08	260.36	3,660.70	29.43	-334.52	29.43	1.27	-0.83	-4.81
3,785.00	9.98	256.76	3,754.10	26.01	-351.53	26.01	1.35	-1.16	-3.79
3,879.00	9.80	255.28	3,846.71	22.11	-367.20	22.11	0.33	-0.19	-1.57
3,974.00	9.80	259.66	3,940.32	18.61	-382.97	18.61	0.78	0.00	4.61
4,069.00	11.87	267.57	4,033.63	16.74	-400.69	16.74	2.68	2.18	8.33
4,164.00	11.21	271.61	4,126.71	16.59	-419.68	16.59	1.10	-0.69	4.25
4,259.00	11.16	274.86	4,219.91	17.63	-438.07	17.63	0.67	-0.05	3.42
4,353.00	11.03	277.76	4,312.15	19.61	-456.05	19.61	0.61	-0.14	3.09
4,447.00	10.37	281.54	4,404.52	22.52	-473.25	22.52	1.02	-0.70	4.02
4,542.00	10.46	277.41	4,497.95	25.34	-490.18	25.34	0.79	0.09	-4.35
4,636.00	12.22	272.93	4,590.11	26.95	-508.58	26.95	2.09	1.87	-4.77
4,731.00	12.57	272.22	4,682.90	27.86	-528.95	27.86	0.40	0.37	-0.75
4,826.00	12.66	270.82	4,775.61	28.41	-549.69	28.41	0.34	0.09	-1.47
4,928.00	11.08	269.85	4,875.42	28.55	-570.66	28.55	1.56	-1.55	-0.95
5,023.00	12.00	271.26	4,968.50	28.74	-589.67	28.74	1.01	0.97	1.48



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company:	KAISER FRANCIS OIL CO.	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 221H
Project:	LEA COUNTY, N.M. 27	TVD Reference:	GE+23' @ 3547.50usft (CAC 166)
Site:	SEC 1-T23S-R33E	MD Reference:	GE+23' @ 3547.50usft (CAC 166)
Well:	BELL LAKE UNIT N. 221H	North Reference:	Grid
Wellbore:	HORIZONTAL	Survey Calculation Method:	Minimum Curvature
Design:	HORIZONTAL	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,117.00	12.44	272.75	5,060.37	29.44	-609.55	29.44	0.58	0.47	1.59
5,212.00	11.47	272.05	5,153.31	30.27	-629.21	30.27	1.03	-1.02	-0.74
5,307.00	11.69	270.64	5,246.38	30.72	-648.27	30.72	0.38	0.23	-1.48
5,402.00	11.96	269.76	5,339.36	30.78	-667.74	30.78	0.34	0.28	-0.93
5,497.00	12.22	268.80	5,432.25	30.53	-687.64	30.53	0.35	0.27	-1.01
5,591.00	12.44	267.65	5,524.09	29.91	-707.70	29.91	0.35	0.23	-1.22
5,686.00	12.04	266.78	5,616.93	28.93	-727.81	28.93	0.46	-0.42	-0.92
5,781.00	10.95	263.61	5,710.02	27.37	-746.67	27.37	1.33	-1.15	-3.34
5,875.00	10.20	259.48	5,802.42	24.86	-763.73	24.86	1.13	-0.80	-4.39
5,969.00	7.69	262.38	5,895.27	22.50	-778.15	22.50	2.71	-2.67	3.09
6,064.00	5.58	267.22	5,989.63	21.43	-789.06	21.43	2.30	-2.22	5.09
6,159.00	5.36	264.75	6,084.20	20.80	-798.10	20.80	0.34	-0.23	-2.60
6,254.00	5.32	261.24	6,178.79	19.73	-806.87	19.73	0.35	-0.04	-3.69
6,348.00	5.19	259.04	6,272.39	18.26	-815.35	18.26	0.26	-0.14	-2.34
6,442.00	5.27	257.99	6,366.00	16.55	-823.74	16.55	0.13	0.09	-1.12
6,536.00	5.49	256.76	6,459.59	14.62	-832.34	14.62	0.26	0.23	-1.31
6,630.00	5.49	255.35	6,553.16	12.45	-841.07	12.45	0.14	0.00	-1.50
6,724.00	5.10	255.09	6,646.76	10.24	-849.46	10.24	0.42	-0.41	-0.28
6,820.00	3.47	250.08	6,742.48	8.15	-856.31	8.15	1.74	-1.70	-5.22
6,914.00	3.34	248.41	6,836.32	6.18	-861.54	6.18	0.17	-0.14	-1.78
7,008.00	3.43	246.21	6,930.15	4.04	-866.65	4.04	0.17	0.10	-2.34
7,103.00	2.20	241.29	7,025.04	2.01	-870.85	2.01	1.32	-1.29	-5.18
7,197.00	1.01	212.11	7,119.00	0.44	-872.88	0.44	1.50	-1.27	-31.04
7,293.00	1.19	207.36	7,214.98	-1.16	-873.78	-1.16	0.21	0.19	-4.95
7,387.00	1.45	197.69	7,308.96	-3.16	-874.59	-3.16	0.36	0.28	-10.29
7,483.00	0.75	280.22	7,404.94	-4.20	-875.58	-4.20	1.61	-0.73	85.97
7,577.00	2.15	323.73	7,498.91	-2.67	-877.23	-2.67	1.79	1.49	46.29
7,672.00	2.20	323.90	7,593.85	0.24	-879.36	0.24	0.05	0.05	0.18
7,767.00	1.98	325.31	7,688.78	3.06	-881.37	3.06	0.24	-0.23	1.48
7,861.00	1.71	327.24	7,782.73	5.58	-883.05	5.58	0.29	-0.29	2.05
7,955.00	1.49	331.55	7,876.70	7.83	-884.39	7.83	0.27	-0.23	4.59
8,050.00	1.14	340.16	7,971.67	9.80	-885.30	9.80	0.42	-0.37	9.06
8,144.00	1.05	357.65	8,065.66	11.54	-885.65	11.54	0.37	-0.10	18.61
8,238.00	0.97	30.61	8,159.64	13.09	-885.28	13.09	0.62	-0.09	35.06
8,333.00	1.10	44.32	8,254.63	14.43	-884.24	14.43	0.29	0.14	14.43
8,427.00	1.19	56.28	8,348.61	15.62	-882.80	15.62	0.27	0.10	12.72
8,522.00	1.45	65.42	8,443.58	16.67	-880.88	16.67	0.35	0.27	9.62
8,616.00	1.63	74.21	8,537.55	17.53	-878.51	17.53	0.32	0.19	9.35
8,710.00	1.63	73.94	8,631.51	18.26	-875.94	18.26	0.01	0.00	-0.29
8,805.00	2.02	81.15	8,726.46	18.89	-872.99	18.89	0.48	0.41	7.59
8,900.00	2.33	82.56	8,821.39	19.40	-869.42	19.40	0.33	0.33	1.48
8,995.00	2.29	85.19	8,916.32	19.81	-865.61	19.81	0.12	-0.04	2.77
9,090.00	1.41	80.89	9,011.27	20.15	-862.57	20.15	0.94	-0.93	-4.53



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company:	KAISER FRANCIS OIL CO.	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 221H
Project:	LEA COUNTY, N.M. 27	TVD Reference:	GE+23' @ 3547.50usft (CAC 166)
Site:	SEC 1-T23S-R33E	MD Reference:	GE+23' @ 3547.50usft (CAC 166)
Well:	BELL LAKE UNIT N. 221H	North Reference:	Grid
Wellbore:	HORIZONTAL	Survey Calculation Method:	Minimum Curvature
Design:	HORIZONTAL	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,185.00	2.11	83.44	9,106.22	20.54	-859.68	20.54	0.74	0.74	2.68
9,279.00	2.02	67.79	9,200.16	21.36	-856.42	21.36	0.61	-0.10	-16.65
9,374.00	2.02	65.24	9,295.10	22.70	-853.35	22.70	0.09	0.00	-2.68
9,468.00	1.80	61.90	9,389.05	24.09	-850.55	24.09	0.26	-0.23	-3.55
9,563.00	2.42	16.29	9,483.99	26.71	-848.67	26.71	1.82	0.65	-48.01
9,657.00	2.07	36.41	9,577.92	29.98	-847.10	29.98	0.91	-0.37	21.40
9,751.00	2.37	61.46	9,671.85	32.28	-844.39	32.28	1.07	0.32	26.65
9,847.00	2.46	74.91	9,767.77	33.76	-840.66	33.76	0.60	0.09	14.01
9,941.00	2.99	76.67	9,861.66	34.85	-836.32	34.85	0.57	0.56	1.87
10,017.00	2.81	55.84	9,937.56	36.36	-832.85	36.36	1.40	-0.24	-27.41
10,045.86	5.26	27.78	9,966.36	37.93	-831.65	37.93	10.66	8.49	-97.20
BLUN KOP 221H									
10,111.00	11.91	13.21	10,030.73	47.12	-828.72	47.12	10.66	10.21	-22.38
10,206.00	27.78	2.49	10,119.83	79.00	-825.50	79.00	17.07	16.71	-11.28
10,300.00	42.64	354.40	10,196.46	132.90	-827.66	132.90	16.54	15.81	-8.61
10,395.00	50.51	351.68	10,261.72	201.31	-836.12	201.31	8.54	8.28	-2.86
10,489.00	53.01	350.27	10,319.90	274.21	-847.72	274.21	2.91	2.66	-1.50
10,583.00	52.09	349.22	10,377.06	347.64	-861.00	347.64	1.32	-0.98	-1.12
10,678.00	59.78	355.11	10,430.26	425.52	-871.53	425.52	9.58	8.09	6.20
10,773.00	66.24	3.63	10,473.42	510.01	-872.28	510.01	10.49	6.80	8.97
10,867.00	76.84	0.47	10,503.15	598.98	-869.17	598.98	11.72	11.28	-3.36
10,962.00	79.43	356.51	10,522.68	691.89	-871.63	691.89	4.91	2.73	-4.17
11,057.00	86.20	356.16	10,534.56	785.90	-877.66	785.90	7.14	7.13	-0.37
11,151.00	88.79	358.89	10,538.67	879.70	-881.71	879.70	4.00	2.76	2.90
11,246.00	89.80	358.27	10,539.84	974.66	-884.06	974.66	1.25	1.06	-0.65
11,341.00	87.52	356.60	10,542.06	1,069.53	-888.31	1,069.53	2.97	-2.40	-1.76
11,436.00	86.59	355.46	10,546.94	1,164.18	-894.88	1,164.18	1.55	-0.98	-1.20
11,530.00	86.29	354.14	10,552.78	1,257.61	-903.38	1,257.61	1.44	-0.32	-1.40
11,624.00	88.09	357.22	10,557.39	1,351.21	-910.45	1,351.21	3.79	1.91	3.28
11,718.00	88.44	356.51	10,560.23	1,445.03	-915.59	1,445.03	0.84	0.37	-0.76
11,813.00	91.56	0.47	10,560.23	1,539.96	-918.09	1,539.96	5.31	3.28	4.17
11,907.00	91.91	359.68	10,557.39	1,633.92	-917.97	1,633.92	0.92	0.37	-0.84
12,001.00	92.09	358.18	10,554.10	1,727.84	-919.72	1,727.84	1.61	0.19	-1.60
12,095.00	93.14	357.65	10,549.82	1,821.68	-923.14	1,821.68	1.25	1.12	-0.56
12,190.00	92.00	358.97	10,545.56	1,916.54	-925.94	1,916.54	1.83	-1.20	1.39
12,284.00	91.03	359.50	10,543.07	2,010.50	-927.19	2,010.50	1.18	-1.03	0.56
12,378.00	88.62	0.03	10,543.36	2,104.49	-927.58	2,104.49	2.63	-2.56	0.56
12,473.00	90.02	2.58	10,544.49	2,199.45	-925.41	2,199.45	3.06	1.47	2.68
12,567.00	89.10	2.58	10,545.21	2,293.35	-921.18	2,293.35	0.98	-0.98	0.00
12,661.00	86.73	1.79	10,548.63	2,387.21	-917.60	2,387.21	2.66	-2.52	-0.84
12,756.00	87.34	1.96	10,553.54	2,482.03	-914.50	2,482.03	0.67	0.64	0.18
12,850.00	87.65	1.79	10,557.65	2,575.89	-911.43	2,575.89	0.38	0.33	-0.18
12,944.00	88.00	1.43	10,561.22	2,669.79	-908.79	2,669.79	0.53	0.37	-0.38
13,039.00	87.74	2.14	10,564.75	2,764.68	-905.83	2,764.68	0.80	-0.27	0.75



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company:	KAISER FRANCIS OIL CO.	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 221H
Project:	LEA COUNTY, N.M. 27	TVD Reference:	GE+23' @ 3547.50usft (CAC 166)
Site:	SEC 1-T23S-R33E	MD Reference:	GE+23' @ 3547.50usft (CAC 166)
Well:	BELL LAKE UNIT N. 221H	North Reference:	Grid
Wellbore:	HORIZONTAL	Survey Calculation Method:	Minimum Curvature
Design:	HORIZONTAL	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,134.00	87.91	2.66	10,568.35	2,859.52	-901.85	2,859.52	0.58	0.18	0.55
13,228.00	88.31	2.58	10,571.45	2,953.37	-897.56	2,953.37	0.43	0.43	-0.09
13,322.00	88.88	0.99	10,573.76	3,047.30	-894.63	3,047.30	1.80	0.61	-1.69
13,416.00	88.57	359.41	10,575.85	3,141.27	-894.30	3,141.27	1.71	-0.33	-1.68
13,511.00	87.56	358.45	10,579.06	3,236.20	-896.08	3,236.20	1.47	-1.06	-1.01
13,606.00	89.19	357.92	10,581.75	3,331.11	-899.08	3,331.11	1.80	1.72	-0.56
13,700.00	87.91	359.68	10,584.13	3,425.05	-901.05	3,425.05	2.31	-1.36	1.87
13,795.00	86.86	2.05	10,588.47	3,519.93	-899.62	3,519.93	2.73	-1.11	2.49
13,889.00	86.02	1.26	10,594.30	3,613.71	-896.91	3,613.71	1.23	-0.89	-0.84
13,984.00	85.93	359.32	10,600.97	3,708.47	-896.43	3,708.47	2.04	-0.09	-2.04
14,079.00	85.10	357.57	10,608.40	3,803.14	-899.00	3,803.14	2.03	-0.87	-1.84
14,173.00	84.79	357.65	10,616.68	3,896.69	-902.91	3,896.69	0.34	-0.33	0.09
14,267.00	86.86	357.22	10,623.53	3,990.34	-907.10	3,990.34	2.25	2.20	-0.46
14,362.00	87.91	356.78	10,627.86	4,085.11	-912.07	4,085.11	1.20	1.11	-0.46
14,456.00	87.95	356.51	10,631.26	4,178.89	-917.57	4,178.89	0.29	0.04	-0.29
14,551.00	87.52	357.83	10,635.01	4,273.70	-922.25	4,273.70	1.46	-0.45	1.39
14,646.00	87.65	357.04	10,639.01	4,368.52	-926.50	4,368.52	0.84	0.14	-0.83
14,740.00	88.40	356.42	10,642.25	4,462.31	-931.86	4,462.31	1.03	0.80	-0.66
14,835.00	88.04	358.01	10,645.20	4,557.15	-936.47	4,557.15	1.72	-0.38	1.67
14,929.00	86.11	0.47	10,650.00	4,651.01	-937.72	4,651.01	3.32	-2.05	2.62
15,023.00	86.86	359.41	10,655.76	4,744.83	-937.82	4,744.83	1.38	0.80	-1.13
15,118.00	86.90	358.45	10,660.94	4,839.67	-939.59	4,839.67	1.01	0.04	-1.01
BLUN LP 221H									
15,212.00	88.04	357.57	10,665.08	4,933.52	-942.85	4,933.52	1.53	1.21	-0.94
15,292.00	88.35	357.30	10,667.60	5,013.40	-946.43	5,013.40	0.51	0.39	-0.34
15,387.00	88.04	358.36	10,670.60	5,108.28	-950.02	5,108.28	1.16	-0.33	1.12
15,481.00	88.18	0.82	10,673.70	5,202.22	-950.70	5,202.22	2.62	0.15	2.62
15,576.00	88.92	359.68	10,676.10	5,297.19	-950.28	5,297.19	1.43	0.78	-1.20
15,670.00	88.13	0.56	10,678.52	5,391.15	-950.09	5,391.15	1.26	-0.84	0.94
15,764.00	86.95	2.40	10,682.56	5,485.03	-947.66	5,485.03	2.32	-1.26	1.96
15,858.00	87.69	2.49	10,686.95	5,578.84	-943.66	5,578.84	0.79	0.79	0.10
15,954.00	85.85	2.31	10,692.36	5,674.60	-939.64	5,674.60	1.93	-1.92	-0.19
16,048.00	86.29	2.31	10,698.80	5,768.30	-935.86	5,768.30	0.47	0.47	0.00
16,142.00	87.30	2.22	10,704.06	5,862.08	-932.15	5,862.08	1.08	1.07	-0.10
16,236.00	87.34	1.35	10,708.45	5,955.93	-929.23	5,955.93	0.93	0.04	-0.93
16,331.00	87.78	0.38	10,712.50	6,050.83	-927.79	6,050.83	1.12	0.46	-1.02
16,426.00	89.71	359.76	10,714.58	6,145.81	-927.68	6,145.81	2.13	2.03	-0.65
16,520.00	89.14	359.94	10,715.52	6,239.80	-927.93	6,239.80	0.64	-0.61	0.19
16,615.00	87.96	0.47	10,717.93	6,334.77	-927.59	6,334.77	1.36	-1.24	0.56
16,710.00	88.48	0.12	10,720.88	6,429.72	-927.10	6,429.72	0.66	0.55	-0.37
16,804.00	89.54	359.76	10,722.50	6,523.70	-927.20	6,523.70	1.19	1.13	-0.38
16,898.00	87.78	358.97	10,724.70	6,617.67	-928.24	6,617.67	2.05	-1.87	-0.84
16,993.00	89.10	358.62	10,727.29	6,712.61	-930.23	6,712.61	1.44	1.39	-0.37



SB Directional Services

Survey Report

Kaiser-Francis Oil Company

Company:	KAISER FRANCIS OIL CO.	Local Co-ordinate Reference:	Well BELL LAKE UNIT N. 221H
Project:	LEA COUNTY, N.M. 27	TVD Reference:	GE+23' @ 3547.50usft (CAC 166)
Site:	SEC 1-T23S-R33E	MD Reference:	GE+23' @ 3547.50usft (CAC 166)
Well:	BELL LAKE UNIT N. 221H	North Reference:	Grid
Wellbore:	HORIZONTAL	Survey Calculation Method:	Minimum Curvature
Design:	HORIZONTAL	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,087.00	89.93	358.01	10,728.08	6,806.56	-933.00	6,806.56	1.10	0.88	-0.65
17,182.00	90.77	357.65	10,727.50	6,901.49	-936.59	6,901.49	0.96	0.88	-0.38
17,276.00	91.91	357.30	10,725.30	6,995.37	-940.73	6,995.37	1.27	1.21	-0.37
17,371.00	90.77	358.53	10,723.08	7,090.28	-944.19	7,090.28	1.77	-1.20	1.29
17,466.00	89.85	358.56	10,722.57	7,185.25	-946.60	7,185.25	0.97	-0.97	0.03
17,560.00	89.67	357.65	10,722.96	7,279.20	-949.71	7,279.20	0.99	-0.19	-0.97
17,655.00	90.29	357.48	10,722.99	7,374.11	-953.75	7,374.11	0.68	0.65	-0.18
17,749.00	91.30	356.95	10,721.69	7,467.99	-958.31	7,467.99	1.21	1.07	-0.56
17,844.00	90.59	357.39	10,720.12	7,562.86	-963.00	7,562.86	0.88	-0.75	0.46
17,938.00	88.62	358.80	10,720.77	7,656.80	-966.13	7,656.80	2.58	-2.10	1.50
18,032.00	89.32	358.71	10,722.46	7,750.76	-968.17	7,750.76	0.75	0.74	-0.10
18,126.00	89.58	358.27	10,723.36	7,844.72	-970.65	7,844.72	0.54	0.28	-0.47
18,221.00	90.29	357.65	10,723.47	7,939.66	-974.03	7,939.66	0.99	0.75	-0.65
18,315.00	90.99	356.95	10,722.42	8,033.55	-978.46	8,033.55	1.05	0.74	-0.74
18,410.00	92.00	356.25	10,719.94	8,128.35	-984.09	8,128.35	1.29	1.06	-0.74
LS 18410.00' MD & 10719.94' TVD									
18,492.00	92.00	356.25	10,717.08	8,210.12	-989.45	8,210.12	0.00	0.00	0.00
PTB 18492.00' MD & 10717.08' TVD - BLUN BHL 221H									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,410.00	10,719.94	8,128.35	-984.09	LS 18410.00' MD & 10719.94' TVD
18,492.00	10,717.08	8,210.12	-989.45	PTB 18492.00' MD & 10717.08' TVD

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 143209

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 143209
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/16/2022